

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934441

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

**Test Information**

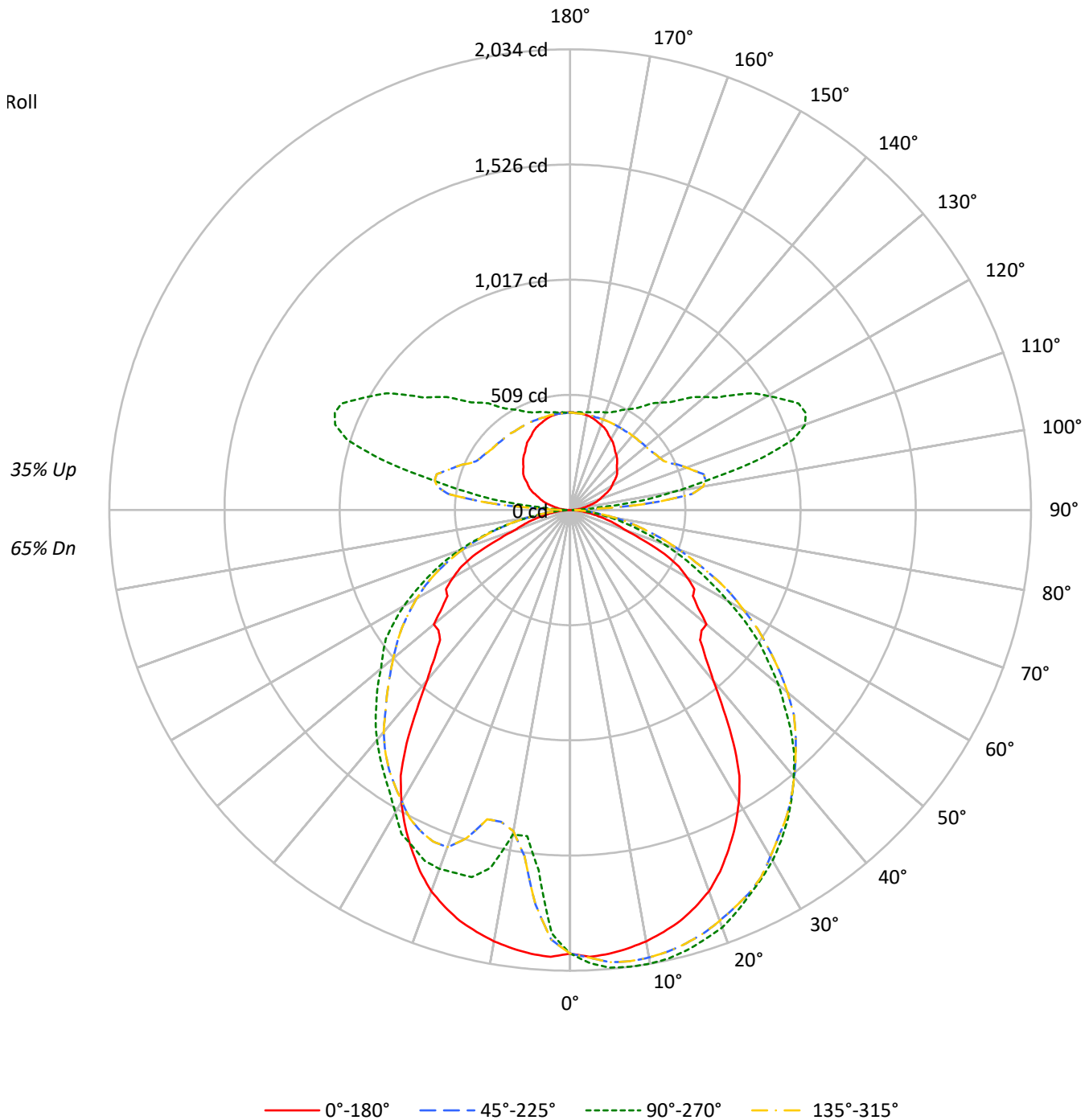
Test Method: LM-79-2019  
Report Number: P934441  
REPORT IS A COMBINATION OF REPORTS P933699 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7869.3 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 67.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65		
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55		
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46		
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39		
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33		
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12111	12111	12111	12111
5°	12197	12226	12197	9613
10°	12112	12043	12112	8610
15°	11975	11782	11975	9839
20°	11721	11474	11721	9859
25°	11203	11023	11203	9651
30°	10537	10648	10537	9191
35°	9388	10175	9388	8687
40°	7818	9617	7818	8307
45°	6981	8965	6981	7868
50°	7410	8187	7410	7429
55°	6966	7349	6966	7174
60°	7172	6241	7172	6571
65°	6493	5159	6493	5767
70°	4485	4112	4485	4833
75°	3918	3039	3918	3640
80°	3134	2010	3134	2188
85°	1765	1064	1765	905

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10707 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.7	2.2
10°-20°	501.8	6.4
20°-30°	775.7	9.9
30°-40°	926.0	11.8
40°-50°	931.4	11.8
50°-60°	810.4	10.3
60°-70°	574.6	7.3
70°-80°	304.0	3.9
80°-90°	77.4	1.0
90°-100°	209.9	2.7
100°-110°	551.8	7.0
110°-120°	572.2	7.3
120°-130°	458.9	5.8
130°-140°	360.1	4.6
140°-150°	276.4	3.5
150°-160°	199.1	2.5
160°-170°	121.8	1.5
170°-180°	41.1	0.5
0°-30°	1454.2	18.5
0°-40°	2380.2	30.2
0°-60°	4122.1	52.4
0°-90°	5078.0	64.5
90°-120°	1333.8	16.9
90°-150°	2429.3	30.9
90°-180°	2791.0	35.5
0°-180°	7869.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1958	1958	1958	1958	1958	
5°	1967	2028	1967	1595	1967	187
15°	1878	2010	1878	1678	1878	528
25°	1654	1875	1654	1641	1654	759
35°	1258	1673	1258	1428	1258	778
45°	811	1378	811	1210	811	650
55°	661	1017	661	993	661	608
65°	459	613	459	685	459	439
75°	174	291	174	348	174	183
85°	30	74	30	63	30	40
90°	3	11	3	11	3	4
95°	28	127	28	127	28	31
105°	100	864	100	864	100	105
115°	177	1113	177	1113	177	174
125°	246	886	246	886	246	218
135°	293	688	293	688	293	226
145°	340	558	340	558	340	213
155°	384	480	384	480	384	176
165°	414	447	414	447	414	117
175°	431	433	431	433	431	41
180°	431	431	431	431	431	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1974.6	1974.6	1985.7	1989.3	1989.3	1983.8	1978.2	1983.8	2000.5	2006.1	2004.2
5°	1967.1	1982.0	2002.3	2006.1	2009.7	2007.8	2004.2	2007.8	2026.3	2030.1	2032.0
7.5°	1952.3	1980.1	2006.1	2011.6	2017.1	2011.6	2009.7	2013.5	2032.0	2035.7	2035.7
10°	1933.8	1972.7	2002.3	2006.1	2011.6	2006.1	2006.1	2013.5	2032.0	2035.7	2037.5
12.5°	1907.8	1961.6	1989.3	1993.1	2000.5	1998.6	1996.7	2004.2	2022.7	2026.3	2026.3
15°	1878.2	1941.2	1967.1	1970.8	1983.8	1980.1	1980.1	1987.5	2007.8	2013.5	2011.6
17.5°	1837.4	1915.2	1944.9	1950.5	1959.7	1957.8	1959.7	1967.1	1985.7	1989.3	1991.2
20°	1791.2	1880.1	1915.2	1920.8	1930.1	1930.1	1930.1	1939.3	1957.8	1965.3	1965.3
22.5°	1728.2	1843.1	1880.1	1883.8	1894.9	1894.9	1898.6	1911.6	1928.2	1930.1	1930.1
25°	1654.1	1802.3	1833.8	1844.8	1856.0	1861.6	1867.1	1874.6	1880.1	1878.2	1880.1
27.5°	1576.3	1750.4	1791.2	1798.6	1813.4	1818.9	1826.3	1828.2	1830.1	1835.6	1831.9
30°	1489.3	1678.2	1739.3	1746.7	1770.8	1774.4	1767.1	1770.8	1780.1	1783.8	1787.4
32.5°	1391.0	1570.8	1685.6	1702.3	1724.4	1713.3	1711.5	1717.1	1731.9	1731.9	1735.6
35°	1257.7	1487.4	1635.5	1650.4	1667.0	1654.1	1661.5	1663.3	1672.6	1678.2	1676.3
37.5°	1111.4	1415.1	1583.7	1594.8	1607.8	1591.2	1602.2	1607.8	1615.2	1611.5	1611.5
40°	981.7	1302.1	1522.5	1530.0	1541.1	1528.2	1539.3	1542.9	1546.7	1542.9	1541.1
42.5°	885.4	1178.0	1457.8	1467.0	1459.6	1468.9	1472.5	1480.0	1474.4	1467.0	1467.0
45°	811.3	1144.7	1387.4	1398.5	1387.4	1402.2	1407.8	1407.8	1391.0	1387.4	1385.5
47.5°	787.2	1078.0	1317.0	1317.0	1311.4	1329.9	1339.2	1326.3	1309.5	1304.0	1304.0
50°	785.3	1004.0	1220.6	1213.2	1239.1	1261.4	1252.1	1239.1	1226.2	1205.9	1205.9
52.5°	713.1	913.2	1096.5	1124.4	1165.1	1178.0	1163.2	1150.2	1128.0	1118.7	1111.4
55°	661.3	818.7	983.6	1039.1	1081.7	1098.4	1070.6	1057.6	1024.3	1018.7	1015.1
57.5°	650.2	681.7	879.8	950.2	1002.1	1000.2	983.6	959.5	931.7	926.1	924.3
60°	596.4	492.7	768.7	852.1	905.7	900.2	885.4	863.2	837.2	833.6	829.8
62.5°	540.8	357.5	642.7	737.2	813.2	811.3	798.3	765.0	746.5	737.2	729.8
65°	459.4	300.0	457.5	613.1	722.4	726.1	698.3	674.2	653.8	642.7	640.9
67.5°	350.0	244.5	309.3	511.2	635.3	631.7	596.4	585.3	559.4	553.8	542.7
70°	259.3	163.0	214.9	414.9	550.2	540.8	513.1	500.2	476.0	463.1	455.7
72.5°	214.9	131.5	157.4	322.3	463.1	451.9	427.9	413.0	392.7	381.5	374.2
75°	174.1	138.9	120.4	238.9	376.0	368.6	346.4	331.5	314.9	300.0	301.9
77.5°	127.8	129.6	96.3	176.0	298.2	287.1	274.1	255.6	248.2	233.4	233.4
80°	96.3	101.9	72.3	120.4	214.9	214.9	203.8	190.8	177.8	170.4	170.4
82.5°	64.9	64.9	53.7	75.9	146.4	140.8	133.4	129.6	122.3	118.5	118.5
85°	29.6	37.0	33.4	46.3	79.6	83.4	83.4	79.6	77.8	74.1	75.9
87.5°	9.3	16.6	20.4	25.9	40.8	42.6	44.5	44.5	44.5	46.3	46.3
90°	2.9	5.2	7.6	8.1	12.7	18.9	22.0	19.5	14.6	10.9	10.9
92.5°	11.6	31.2	50.8	55.8	78.4	108.6	123.7	108.3	77.8	54.9	52.7
95°	27.8	63.7	99.6	108.6	192.9	305.4	361.5	322.7	244.8	186.4	179.7
97.5°	48.0	79.7	111.4	119.4	259.9	447.4	541.0	516.4	467.2	430.2	417.6
100°	63.6	92.3	121.1	128.3	284.2	492.2	596.2	597.9	601.6	604.3	589.3
102.5°	76.8	103.8	130.6	137.3	295.5	506.3	611.8	643.1	705.8	752.8	740.0
105°	99.5	122.2	144.9	150.6	303.7	507.9	610.0	680.3	820.8	926.2	919.3
107.5°	122.5	143.8	164.9	170.2	305.3	485.3	575.3	673.3	869.3	1016.3	1018.0
110°	138.1	157.2	176.4	181.1	302.9	465.3	546.4	656.0	875.2	1039.5	1046.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.5	171.7	189.9	194.5	303.0	447.8	520.2	632.3	856.6	1024.7	1035.7
115°	176.6	193.4	210.2	214.4	305.8	427.7	488.7	596.7	812.7	974.7	990.0
117.5°	199.4	214.7	229.9	233.8	311.5	415.2	467.0	564.5	759.4	905.6	922.6
120°	212.6	227.0	241.4	245.1	316.1	410.9	458.3	547.4	725.5	859.1	875.6
122.5°	225.7	240.2	254.7	258.4	322.8	408.7	451.6	531.8	692.3	812.6	828.9
125°	245.6	258.8	272.1	275.4	331.7	406.9	444.5	512.6	648.9	751.0	766.0
127.5°	261.8	275.2	288.5	291.9	340.7	405.8	438.4	496.9	613.8	701.6	714.2
130°	270.5	284.9	299.3	302.8	347.2	406.4	436.0	488.1	592.3	670.5	682.1
132.5°	279.5	293.9	308.3	311.8	352.6	406.9	434.1	480.7	573.9	643.8	654.3
135°	292.7	305.8	318.9	322.2	358.4	406.5	430.6	469.7	547.7	606.3	615.3
137.5°	306.3	319.3	332.2	335.5	367.0	408.9	430.0	463.0	529.0	578.5	585.9
140°	317.6	329.6	341.4	344.4	372.3	409.4	428.0	456.5	513.5	556.2	563.2
142.5°	326.2	337.2	348.3	351.1	376.7	410.9	428.0	453.1	503.1	540.6	546.6
145°	339.6	349.2	358.8	361.3	382.6	410.9	425.1	445.6	486.5	517.3	521.8
147.5°	352.9	362.2	371.6	374.0	391.0	413.7	425.1	441.2	473.4	497.6	501.4
150°	361.5	370.1	378.5	380.6	395.5	415.2	425.1	438.8	466.0	486.3	489.3
152.5°	370.4	376.9	383.3	384.9	398.3	416.1	425.1	436.7	460.0	477.4	479.6
155°	383.8	388.6	393.2	394.4	404.6	418.3	425.1	434.4	452.9	466.7	468.2
157.5°	393.6	398.2	402.9	404.0	411.0	420.4	425.1	432.3	446.7	457.4	458.5
160°	400.2	403.8	407.3	408.3	413.9	421.4	425.1	431.3	443.6	452.9	453.4
162.5°	406.9	409.6	412.3	413.0	417.0	422.4	425.1	430.3	440.7	448.5	449.0
165°	414.1	416.5	418.9	419.6	421.5	423.9	425.1	428.8	436.2	441.8	442.5
167.5°	420.7	421.8	423.0	423.3	424.9	427.0	428.0	430.4	435.3	438.9	439.2
170°	425.1	426.2	427.4	427.7	427.8	427.9	428.0	430.4	435.3	438.9	438.9
172.5°	427.4	427.7	427.9	428.0	428.0	428.0	428.0	429.9	433.7	436.6	436.4
175°	430.6	430.6	430.6	430.6	429.8	428.6	428.0	429.2	431.6	433.4	433.4
177.5°	430.6	430.6	430.6	430.6	430.0	429.0	428.6	429.5	431.5	432.9	432.6
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	2007.8	2002.3	2007.8	2004.2	2006.1	2000.5	1983.8	1978.2	1983.8	1989.3	1989.3
5°	2032.0	2028.2	2032.0	2032.0	2030.1	2026.3	2007.8	2004.2	2007.8	2009.7	2006.1
7.5°	2039.3	2033.8	2039.3	2035.7	2035.7	2032.0	2013.5	2009.7	2011.6	2017.1	2011.6
10°	2039.3	2033.8	2039.3	2037.5	2035.7	2032.0	2013.5	2006.1	2006.1	2011.6	2006.1
12.5°	2030.1	2026.3	2030.1	2026.3	2026.3	2022.7	2004.2	1996.7	1998.6	2000.5	1993.1
15°	2015.3	2009.7	2015.3	2011.6	2013.5	2007.8	1987.5	1980.1	1980.1	1983.8	1970.8
17.5°	1993.1	1985.7	1993.1	1991.2	1989.3	1985.7	1967.1	1959.7	1957.8	1959.7	1950.5
20°	1967.1	1961.6	1967.1	1965.3	1965.3	1957.8	1939.3	1930.1	1930.1	1930.1	1920.8
22.5°	1926.3	1920.8	1926.3	1930.1	1930.1	1928.2	1911.6	1898.6	1894.9	1894.9	1883.8
25°	1880.1	1874.6	1880.1	1880.1	1878.2	1880.1	1874.6	1867.1	1861.6	1856.0	1844.8
27.5°	1835.6	1831.9	1835.6	1831.9	1835.6	1830.1	1828.2	1826.3	1818.9	1813.4	1798.6
30°	1791.2	1787.4	1791.2	1787.4	1783.8	1780.1	1770.8	1767.1	1774.4	1770.8	1746.7
32.5°	1735.6	1731.9	1735.6	1735.6	1731.9	1731.9	1717.1	1711.5	1713.3	1724.4	1702.3
35°	1678.2	1672.6	1678.2	1676.3	1678.2	1672.6	1663.3	1661.5	1654.1	1667.0	1650.4
37.5°	1611.5	1605.9	1611.5	1611.5	1611.5	1615.2	1607.8	1602.2	1591.2	1607.8	1594.8
40°	1542.9	1535.5	1542.9	1541.1	1542.9	1546.7	1542.9	1539.3	1528.2	1541.1	1530.0
42.5°	1465.2	1463.3	1465.2	1467.0	1467.0	1474.4	1480.0	1472.5	1468.9	1459.6	1467.0
45°	1381.8	1378.1	1381.8	1385.5	1387.4	1391.0	1407.8	1407.8	1402.2	1387.4	1398.5
47.5°	1292.9	1283.6	1292.9	1304.0	1304.0	1309.5	1326.3	1339.2	1329.9	1311.4	1317.0
50°	1198.4	1200.3	1198.4	1205.9	1205.9	1226.2	1239.1	1252.1	1261.4	1239.1	1213.2
52.5°	1105.9	1104.0	1105.9	1111.4	1118.7	1128.0	1150.2	1163.2	1178.0	1165.1	1124.4
55°	1013.2	1016.9	1013.2	1015.1	1018.7	1024.3	1057.6	1070.6	1098.4	1081.7	1039.1
57.5°	920.6	915.0	920.6	924.3	926.1	931.7	959.5	983.6	1000.2	1002.1	950.2
60°	813.2	805.7	813.2	829.8	833.6	837.2	863.2	885.4	900.2	905.7	852.1
62.5°	718.7	705.7	718.7	729.8	737.2	746.5	765.0	798.3	811.3	813.2	737.2
65°	618.7	613.1	618.7	640.9	642.7	653.8	674.2	698.3	726.1	722.4	613.1
67.5°	527.9	527.9	527.9	542.7	553.8	559.4	585.3	596.4	631.7	635.3	511.2
70°	444.5	442.7	444.5	455.7	463.1	476.0	500.2	513.1	540.8	550.2	414.9
72.5°	364.9	363.0	364.9	374.2	381.5	392.7	413.0	427.9	451.9	463.1	322.3
75°	294.5	290.8	294.5	301.9	300.0	314.9	331.5	346.4	368.6	376.0	238.9
77.5°	226.0	226.0	226.0	233.4	233.4	248.2	255.6	274.1	287.1	298.2	176.0
80°	168.5	166.8	168.5	170.4	170.4	177.8	190.8	203.8	214.9	214.9	120.4
82.5°	118.5	114.9	118.5	118.5	118.5	122.3	129.6	133.4	140.8	146.4	75.9
85°	74.1	74.1	74.1	75.9	74.1	77.8	79.6	83.4	83.4	79.6	46.3
87.5°	48.1	46.3	48.1	46.3	46.3	44.5	44.5	44.5	42.6	40.8	25.9
90°	10.9	10.9	10.9	10.9	10.9	14.6	19.5	22.0	18.9	12.7	8.1
92.5°	43.9	35.2	43.9	52.7	54.9	77.8	108.3	123.7	108.6	78.4	55.8
95°	153.3	126.8	153.3	179.7	186.4	244.8	322.7	361.5	305.4	192.9	108.6
97.5°	367.3	317.1	367.3	417.6	430.2	467.2	516.4	541.0	447.4	259.9	119.4
100°	529.3	469.3	529.3	589.3	604.3	601.6	597.9	596.2	492.2	284.2	128.3
102.5°	688.6	637.2	688.6	740.0	752.8	705.8	643.1	611.8	506.3	295.5	137.3
105°	891.7	864.0	891.7	919.3	926.2	820.8	680.3	610.0	507.9	303.7	150.6
107.5°	1024.6	1031.4	1024.6	1018.0	1016.3	869.3	673.3	575.3	485.3	305.3	170.2
110°	1075.4	1104.2	1075.4	1046.7	1039.5	875.2	656.0	546.4	465.3	302.9	181.1





TEST NUMBER: P934441

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1080.0	1124.1	1080.0	1035.7	1024.7	856.6	632.3	520.2	447.8	303.0	194.5
115°	1051.3	1112.6	1051.3	990.0	974.7	812.7	596.7	488.7	427.7	305.8	214.4
117.5°	990.6	1058.6	990.6	922.6	905.6	759.4	564.5	467.0	415.2	311.5	233.8
120°	941.6	1007.7	941.6	875.6	859.1	725.5	547.4	458.3	410.9	316.1	245.1
122.5°	894.0	959.1	894.0	828.9	812.6	692.3	531.8	451.6	408.7	322.8	258.4
125°	826.0	886.0	826.0	766.0	751.0	648.9	512.6	444.5	406.9	331.7	275.4
127.5°	764.9	815.5	764.9	714.2	701.6	613.8	496.9	438.4	405.8	340.7	291.9
130°	728.9	775.6	728.9	682.1	670.5	592.3	488.1	436.0	406.4	347.2	302.8
132.5°	696.2	738.0	696.2	654.3	643.8	573.9	480.7	434.1	406.9	352.6	311.8
135°	651.4	687.5	651.4	615.3	606.3	547.7	469.7	430.6	406.5	358.4	322.2
137.5°	615.5	645.0	615.5	585.9	578.5	529.0	463.0	430.0	408.9	367.0	335.5
140°	590.7	618.4	590.7	563.2	556.2	513.5	456.5	428.0	409.4	372.3	344.4
142.5°	570.4	594.1	570.4	546.6	540.6	503.1	453.1	428.0	410.9	376.7	351.1
145°	539.8	557.7	539.8	521.8	517.3	486.5	445.6	425.1	410.9	382.6	361.3
147.5°	516.2	531.1	516.2	501.4	497.6	473.4	441.2	425.1	413.7	391.0	374.0
150°	501.5	513.5	501.5	489.3	486.3	466.0	438.8	425.1	415.2	395.5	380.6
152.5°	488.8	497.9	488.8	479.6	477.4	460.0	436.7	425.1	416.1	398.3	384.9
155°	474.3	480.3	474.3	468.2	466.7	452.9	434.4	425.1	418.3	404.6	394.4
157.5°	462.8	467.0	462.8	458.5	457.4	446.7	432.3	425.1	420.4	411.0	404.0
160°	455.9	458.3	455.9	453.4	452.9	443.6	431.3	425.1	421.4	413.9	408.3
162.5°	451.4	453.7	451.4	449.0	448.5	440.7	430.3	425.1	422.4	417.0	413.0
165°	444.9	447.4	444.9	442.5	441.8	436.2	428.8	425.1	423.9	421.5	419.6
167.5°	440.2	441.3	440.2	439.2	438.9	435.3	430.4	428.0	427.0	424.9	423.3
170°	438.9	438.9	438.9	438.9	438.9	435.3	430.4	428.0	427.9	427.8	427.7
172.5°	435.5	434.6	435.5	436.4	436.6	433.7	429.9	428.0	428.0	428.0	428.0
175°	433.4	433.4	433.4	433.4	433.4	431.6	429.2	428.0	428.6	429.8	430.6
177.5°	431.6	430.6	431.6	432.6	432.9	431.5	429.5	428.6	429.0	430.0	430.6
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



TEST NUMBER: P934441

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1985.7	1974.6	1974.6	1956.0	1948.6	1943.1	1933.8	1906.0	1898.6	1891.2	1902.3
5°	2002.3	1982.0	1967.1	1933.8	1906.0	1894.9	1859.7	1793.0	1748.6	1715.2	1696.7
7.5°	2006.1	1980.1	1952.3	1900.4	1833.8	1804.1	1696.7	1574.4	1541.1	1511.4	1492.9
10°	2002.3	1972.7	1933.8	1856.0	1698.5	1646.7	1539.3	1459.6	1439.3	1433.7	1439.3
12.5°	1989.3	1961.6	1907.8	1778.2	1557.8	1522.5	1459.6	1413.3	1409.6	1418.9	1468.9
15°	1967.1	1941.2	1878.2	1674.4	1480.0	1454.0	1409.6	1392.9	1413.3	1478.1	1628.2
17.5°	1944.9	1915.2	1837.4	1572.5	1420.7	1402.2	1370.7	1404.0	1518.9	1605.9	1655.9
20°	1915.2	1880.1	1791.2	1498.5	1378.1	1361.4	1346.6	1496.7	1583.7	1615.2	1642.9
22.5°	1880.1	1843.1	1728.2	1446.6	1333.6	1320.6	1329.9	1548.5	1583.7	1605.9	1630.0
25°	1833.8	1802.3	1654.1	1405.9	1298.5	1283.6	1318.9	1542.9	1563.3	1568.9	1617.0
27.5°	1791.2	1750.4	1576.3	1368.9	1255.9	1250.3	1328.1	1518.9	1533.7	1539.3	1591.2
30°	1739.3	1678.2	1489.3	1329.9	1211.4	1209.5	1329.9	1489.3	1485.5	1500.4	1552.2
32.5°	1685.6	1570.8	1391.0	1281.8	1168.8	1167.0	1317.0	1444.8	1441.0	1461.4	1500.4
35°	1635.5	1487.4	1257.7	1226.2	1115.1	1116.9	1285.5	1392.9	1394.8	1413.3	1437.4
37.5°	1583.7	1415.1	1111.4	1165.1	1063.2	1063.2	1242.9	1344.8	1341.0	1346.6	1379.9
40°	1522.5	1302.1	981.7	1085.5	1015.1	1009.5	1191.0	1292.9	1279.9	1278.1	1324.4
42.5°	1457.8	1178.0	885.4	979.9	959.5	952.1	1128.0	1229.9	1205.9	1211.4	1270.6
45°	1387.4	1144.7	811.3	828.0	902.1	896.5	1059.5	1157.6	1141.0	1155.9	1217.0
47.5°	1317.0	1078.0	787.2	687.2	841.0	839.1	983.6	1087.3	1078.0	1092.9	1157.6
50°	1220.6	1004.0	785.3	589.1	772.4	779.8	892.8	1018.7	1018.7	1031.7	1100.2
52.5°	1096.5	913.2	713.1	533.4	692.7	715.0	813.2	959.5	963.2	976.1	1037.2
55°	983.6	818.7	661.3	490.8	598.3	646.4	735.3	898.3	905.7	918.7	974.3
57.5°	879.8	681.7	650.2	440.8	511.2	557.6	666.8	839.1	842.8	853.9	907.6
60°	768.7	492.7	596.4	387.2	435.3	470.4	603.8	768.7	781.7	789.1	835.3
62.5°	642.7	357.5	540.8	350.0	398.3	405.7	551.9	702.1	718.7	724.2	752.1
65°	457.5	300.0	459.4	318.5	359.3	361.2	496.4	633.5	648.3	657.6	677.9
67.5°	309.3	244.5	350.0	288.9	329.7	331.5	442.7	553.8	574.2	581.6	594.6
70°	214.9	163.0	259.3	257.5	296.4	300.0	385.3	481.6	500.2	505.7	513.1
72.5°	157.4	131.5	214.9	231.5	261.2	264.9	326.0	400.1	418.7	424.2	427.9
75°	120.4	138.9	174.1	201.9	222.3	224.1	266.8	326.0	338.9	342.7	344.5
77.5°	96.3	129.6	127.8	163.0	181.5	177.8	209.3	251.9	263.0	263.0	263.0
80°	72.3	101.9	96.3	116.7	133.4	129.6	150.0	179.7	183.4	187.0	185.3
82.5°	53.7	64.9	64.9	74.1	88.9	85.2	100.0	116.7	116.7	116.7	120.4
85°	33.4	37.0	29.6	38.9	50.0	48.1	55.6	63.0	64.9	64.9	61.1
87.5°	20.4	16.6	9.3	14.9	22.2	22.2	25.9	27.8	25.9	25.9	25.9
90°	7.6	5.2	2.9	5.2	7.6	8.1	12.7	18.9	22.0	19.5	14.6
92.5°	50.8	31.2	11.6	31.2	50.8	55.8	78.4	108.6	123.7	108.3	77.8
95°	99.6	63.7	27.8	63.7	99.6	108.6	192.9	305.4	361.5	322.7	244.8
97.5°	111.4	79.7	48.0	79.7	111.4	119.4	259.9	447.4	541.0	516.4	467.2
100°	121.1	92.3	63.6	92.3	121.1	128.3	284.2	492.2	596.2	597.9	601.6
102.5°	130.6	103.8	76.8	103.8	130.6	137.3	295.5	506.3	611.8	643.1	705.8
105°	144.9	122.2	99.5	122.2	144.9	150.6	303.7	507.9	610.0	680.3	820.8
107.5°	164.9	143.8	122.5	143.8	164.9	170.2	305.3	485.3	575.3	673.3	869.3
110°	176.4	157.2	138.1	157.2	176.4	181.1	302.9	465.3	546.4	656.0	875.2



TEST NUMBER: P934441

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	189.9	171.7	153.5	171.7	189.9	194.5	303.0	447.8	520.2	632.3	856.6
115°	210.2	193.4	176.6	193.4	210.2	214.4	305.8	427.7	488.7	596.7	812.7
117.5°	229.9	214.7	199.4	214.7	229.9	233.8	311.5	415.2	467.0	564.5	759.4
120°	241.4	227.0	212.6	227.0	241.4	245.1	316.1	410.9	458.3	547.4	725.5
122.5°	254.7	240.2	225.7	240.2	254.7	258.4	322.8	408.7	451.6	531.8	692.3
125°	272.1	258.8	245.6	258.8	272.1	275.4	331.7	406.9	444.5	512.6	648.9
127.5°	288.5	275.2	261.8	275.2	288.5	291.9	340.7	405.8	438.4	496.9	613.8
130°	299.3	284.9	270.5	284.9	299.3	302.8	347.2	406.4	436.0	488.1	592.3
132.5°	308.3	293.9	279.5	293.9	308.3	311.8	352.6	406.9	434.1	480.7	573.9
135°	318.9	305.8	292.7	305.8	318.9	322.2	358.4	406.5	430.6	469.7	547.7
137.5°	332.2	319.3	306.3	319.3	332.2	335.5	367.0	408.9	430.0	463.0	529.0
140°	341.4	329.6	317.6	329.6	341.4	344.4	372.3	409.4	428.0	456.5	513.5
142.5°	348.3	337.2	326.2	337.2	348.3	351.1	376.7	410.9	428.0	453.1	503.1
145°	358.8	349.2	339.6	349.2	358.8	361.3	382.6	410.9	425.1	445.6	486.5
147.5°	371.6	362.2	352.9	362.2	371.6	374.0	391.0	413.7	425.1	441.2	473.4
150°	378.5	370.1	361.5	370.1	378.5	380.6	395.5	415.2	425.1	438.8	466.0
152.5°	383.3	376.9	370.4	376.9	383.3	384.9	398.3	416.1	425.1	436.7	460.0
155°	393.2	388.6	383.8	388.6	393.2	394.4	404.6	418.3	425.1	434.4	452.9
157.5°	402.9	398.2	393.6	398.2	402.9	404.0	411.0	420.4	425.1	432.3	446.7
160°	407.3	403.8	400.2	403.8	407.3	408.3	413.9	421.4	425.1	431.3	443.6
162.5°	412.3	409.6	406.9	409.6	412.3	413.0	417.0	422.4	425.1	430.3	440.7
165°	418.9	416.5	414.1	416.5	418.9	419.6	421.5	423.9	425.1	428.8	436.2
167.5°	423.0	421.8	420.7	421.8	423.0	423.3	424.9	427.0	428.0	430.4	435.3
170°	427.4	426.2	425.1	426.2	427.4	427.7	427.8	427.9	428.0	430.4	435.3
172.5°	427.9	427.7	427.4	427.7	427.9	428.0	428.0	428.0	428.0	429.9	433.7
175°	430.6	430.6	430.6	430.6	430.6	430.6	429.8	428.6	428.0	429.2	431.6
177.5°	430.6	430.6	430.6	430.6	430.6	430.6	430.0	429.0	428.6	429.5	431.5
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



TEST NUMBER: P934441

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1889.3	1883.8	1891.2	1870.8	1891.2	1883.8	1889.3	1902.3	1891.2	1898.6	1906.0
5°	1657.8	1648.5	1618.9	1594.8	1618.9	1648.5	1657.8	1696.7	1715.2	1748.6	1793.0
7.5°	1481.8	1474.4	1467.0	1452.2	1467.0	1474.4	1481.8	1492.9	1511.4	1541.1	1574.4
10°	1442.9	1444.8	1455.9	1454.0	1455.9	1444.8	1442.9	1439.3	1433.7	1439.3	1459.6
12.5°	1542.9	1559.7	1620.8	1617.0	1620.8	1559.7	1542.9	1468.9	1418.9	1409.6	1413.3
15°	1657.8	1663.3	1676.3	1678.2	1676.3	1663.3	1657.8	1628.2	1478.1	1413.3	1392.9
17.5°	1668.9	1670.8	1680.0	1680.0	1680.0	1670.8	1668.9	1655.9	1605.9	1518.9	1404.0
20°	1659.7	1663.3	1681.9	1685.6	1681.9	1663.3	1659.7	1642.9	1615.2	1583.7	1496.7
22.5°	1655.9	1663.3	1678.2	1676.3	1678.2	1663.3	1655.9	1630.0	1605.9	1583.7	1548.5
25°	1637.4	1637.4	1639.3	1641.2	1639.3	1637.4	1637.4	1617.0	1568.9	1563.3	1542.9
27.5°	1598.5	1602.2	1613.3	1611.5	1613.3	1602.2	1598.5	1591.2	1539.3	1533.7	1518.9
30°	1563.3	1559.7	1550.4	1542.9	1550.4	1559.7	1563.3	1552.2	1500.4	1485.5	1489.3
32.5°	1504.0	1494.8	1485.5	1480.0	1485.5	1494.8	1504.0	1500.4	1461.4	1441.0	1444.8
35°	1433.7	1435.5	1433.7	1428.1	1433.7	1435.5	1433.7	1437.4	1413.3	1394.8	1392.9
37.5°	1383.6	1387.4	1385.5	1378.1	1385.5	1387.4	1383.6	1379.9	1346.6	1341.0	1344.8
40°	1331.8	1333.6	1331.8	1326.3	1331.8	1333.6	1331.8	1324.4	1278.1	1279.9	1292.9
42.5°	1281.8	1279.9	1274.4	1270.6	1274.4	1279.9	1281.8	1270.6	1211.4	1205.9	1229.9
45°	1224.4	1226.2	1215.1	1209.5	1215.1	1226.2	1224.4	1217.0	1155.9	1141.0	1157.6
47.5°	1167.0	1167.0	1157.6	1152.1	1157.6	1167.0	1167.0	1157.6	1092.9	1078.0	1087.3
50°	1105.9	1104.0	1091.0	1089.1	1091.0	1104.0	1105.9	1100.2	1031.7	1018.7	1018.7
52.5°	1035.5	1035.5	1037.2	1041.0	1037.2	1035.5	1035.5	1037.2	976.1	963.2	959.5
55°	974.3	976.1	989.1	992.8	989.1	976.1	974.3	974.3	918.7	905.7	898.3
57.5°	911.3	911.3	920.6	920.6	920.6	911.3	911.3	907.6	853.9	842.8	839.1
60°	839.1	842.8	850.2	848.3	850.2	842.8	839.1	835.3	789.1	781.7	768.7
62.5°	763.1	766.8	768.7	765.0	768.7	766.8	763.1	752.1	724.2	718.7	702.1
65°	683.5	687.2	689.1	685.3	689.1	687.2	683.5	677.9	657.6	648.3	633.5
67.5°	602.0	600.2	598.3	605.7	598.3	600.2	602.0	594.6	581.6	574.2	553.8
70°	518.7	518.7	516.8	520.4	516.8	518.7	518.7	513.1	505.7	500.2	481.6
72.5°	429.7	427.9	435.3	429.7	435.3	427.9	429.7	427.9	424.2	418.7	400.1
75°	342.7	346.4	342.7	348.3	342.7	346.4	342.7	344.5	342.7	338.9	326.0
77.5°	261.2	264.9	261.2	261.2	261.2	264.9	261.2	263.0	263.0	263.0	251.9
80°	185.3	183.4	183.4	181.5	183.4	183.4	185.3	185.3	187.0	183.4	179.7
82.5°	118.5	116.7	116.7	120.4	116.7	116.7	118.5	120.4	116.7	116.7	116.7
85°	64.9	66.6	63.0	63.0	63.0	66.6	64.9	61.1	64.9	64.9	63.0
87.5°	24.1	22.2	22.2	22.2	22.2	22.2	24.1	25.9	25.9	25.9	27.8
90°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	14.6	19.5	22.0	18.9
92.5°	54.9	52.7	43.9	35.2	43.9	52.7	54.9	77.8	108.3	123.7	108.6
95°	186.4	179.7	153.3	126.8	153.3	179.7	186.4	244.8	322.7	361.5	305.4
97.5°	430.2	417.6	367.3	317.1	367.3	417.6	430.2	467.2	516.4	541.0	447.4
100°	604.3	589.3	529.3	469.3	529.3	589.3	604.3	601.6	597.9	596.2	492.2
102.5°	752.8	740.0	688.6	637.2	688.6	740.0	752.8	705.8	643.1	611.8	506.3
105°	926.2	919.3	891.7	864.0	891.7	919.3	926.2	820.8	680.3	610.0	507.9
107.5°	1016.3	1018.0	1024.6	1031.4	1024.6	1018.0	1016.3	869.3	673.3	575.3	485.3
110°	1039.5	1046.7	1075.4	1104.2	1075.4	1046.7	1039.5	875.2	656.0	546.4	465.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1024.7	1035.7	1080.0	1124.1	1080.0	1035.7	1024.7	856.6	632.3	520.2	447.8
115°	974.7	990.0	1051.3	1112.6	1051.3	990.0	974.7	812.7	596.7	488.7	427.7
117.5°	905.6	922.6	990.6	1058.6	990.6	922.6	905.6	759.4	564.5	467.0	415.2
120°	859.1	875.6	941.6	1007.7	941.6	875.6	859.1	725.5	547.4	458.3	410.9
122.5°	812.6	828.9	894.0	959.1	894.0	828.9	812.6	692.3	531.8	451.6	408.7
125°	751.0	766.0	826.0	886.0	826.0	766.0	751.0	648.9	512.6	444.5	406.9
127.5°	701.6	714.2	764.9	815.5	764.9	714.2	701.6	613.8	496.9	438.4	405.8
130°	670.5	682.1	728.9	775.6	728.9	682.1	670.5	592.3	488.1	436.0	406.4
132.5°	643.8	654.3	696.2	738.0	696.2	654.3	643.8	573.9	480.7	434.1	406.9
135°	606.3	615.3	651.4	687.5	651.4	615.3	606.3	547.7	469.7	430.6	406.5
137.5°	578.5	585.9	615.5	645.0	615.5	585.9	578.5	529.0	463.0	430.0	408.9
140°	556.2	563.2	590.7	618.4	590.7	563.2	556.2	513.5	456.5	428.0	409.4
142.5°	540.6	546.6	570.4	594.1	570.4	546.6	540.6	503.1	453.1	428.0	410.9
145°	517.3	521.8	539.8	557.7	539.8	521.8	517.3	486.5	445.6	425.1	410.9
147.5°	497.6	501.4	516.2	531.1	516.2	501.4	497.6	473.4	441.2	425.1	413.7
150°	486.3	489.3	501.5	513.5	501.5	489.3	486.3	466.0	438.8	425.1	415.2
152.5°	477.4	479.6	488.8	497.9	488.8	479.6	477.4	460.0	436.7	425.1	416.1
155°	466.7	468.2	474.3	480.3	474.3	468.2	466.7	452.9	434.4	425.1	418.3
157.5°	457.4	458.5	462.8	467.0	462.8	458.5	457.4	446.7	432.3	425.1	420.4
160°	452.9	453.4	455.9	458.3	455.9	453.4	452.9	443.6	431.3	425.1	421.4
162.5°	448.5	449.0	451.4	453.7	451.4	449.0	448.5	440.7	430.3	425.1	422.4
165°	441.8	442.5	444.9	447.4	444.9	442.5	441.8	436.2	428.8	425.1	423.9
167.5°	438.9	439.2	440.2	441.3	440.2	439.2	438.9	435.3	430.4	428.0	427.0
170°	438.9	438.9	438.9	438.9	438.9	438.9	438.9	435.3	430.4	428.0	427.9
172.5°	436.6	436.4	435.5	434.6	435.5	436.4	436.6	433.7	429.9	428.0	428.0
175°	433.4	433.4	433.4	433.4	433.4	433.4	433.4	431.6	429.2	428.0	428.6
177.5°	432.9	432.6	431.6	430.6	431.6	432.6	432.9	431.5	429.5	428.6	429.0
180°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1957.8	1957.8	1957.8	1957.8	1957.8
2.5°	1933.8	1943.1	1948.6	1956.0	1974.6
5°	1859.7	1894.9	1906.0	1933.8	1967.1
7.5°	1696.7	1804.1	1833.8	1900.4	1952.3
10°	1539.3	1646.7	1698.5	1856.0	1933.8
12.5°	1459.6	1522.5	1557.8	1778.2	1907.8
15°	1409.6	1454.0	1480.0	1674.4	1878.2
17.5°	1370.7	1402.2	1420.7	1572.5	1837.4
20°	1346.6	1361.4	1378.1	1498.5	1791.2
22.5°	1329.9	1320.6	1333.6	1446.6	1728.2
25°	1318.9	1283.6	1298.5	1405.9	1654.1
27.5°	1328.1	1250.3	1255.9	1368.9	1576.3
30°	1329.9	1209.5	1211.4	1329.9	1489.3
32.5°	1317.0	1167.0	1168.8	1281.8	1391.0
35°	1285.5	1116.9	1115.1	1226.2	1257.7
37.5°	1242.9	1063.2	1063.2	1165.1	1111.4
40°	1191.0	1009.5	1015.1	1085.5	981.7
42.5°	1128.0	952.1	959.5	979.9	885.4
45°	1059.5	896.5	902.1	828.0	811.3
47.5°	983.6	839.1	841.0	687.2	787.2
50°	892.8	779.8	772.4	589.1	785.3
52.5°	813.2	715.0	692.7	533.4	713.1
55°	735.3	646.4	598.3	490.8	661.3
57.5°	666.8	557.6	511.2	440.8	650.2
60°	603.8	470.4	435.3	387.2	596.4
62.5°	551.9	405.7	398.3	350.0	540.8
65°	496.4	361.2	359.3	318.5	459.4
67.5°	442.7	331.5	329.7	288.9	350.0
70°	385.3	300.0	296.4	257.5	259.3
72.5°	326.0	264.9	261.2	231.5	214.9
75°	266.8	224.1	222.3	201.9	174.1
77.5°	209.3	177.8	181.5	163.0	127.8
80°	150.0	129.6	133.4	116.7	96.3
82.5°	100.0	85.2	88.9	74.1	64.9
85°	55.6	48.1	50.0	38.9	29.6
87.5°	25.9	22.2	22.2	14.9	9.3
90°	12.7	8.1	7.6	5.2	2.9
92.5°	78.4	55.8	50.8	31.2	11.6
95°	192.9	108.6	99.6	63.7	27.8
97.5°	259.9	119.4	111.4	79.7	48.0
100°	284.2	128.3	121.1	92.3	63.6
102.5°	295.5	137.3	130.6	103.8	76.8
105°	303.7	150.6	144.9	122.2	99.5
107.5°	305.3	170.2	164.9	143.8	122.5
110°	302.9	181.1	176.4	157.2	138.1



TEST NUMBER: P934441

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	303.0	194.5	189.9	171.7	153.5
115°	305.8	214.4	210.2	193.4	176.6
117.5°	311.5	233.8	229.9	214.7	199.4
120°	316.1	245.1	241.4	227.0	212.6
122.5°	322.8	258.4	254.7	240.2	225.7
125°	331.7	275.4	272.1	258.8	245.6
127.5°	340.7	291.9	288.5	275.2	261.8
130°	347.2	302.8	299.3	284.9	270.5
132.5°	352.6	311.8	308.3	293.9	279.5
135°	358.4	322.2	318.9	305.8	292.7
137.5°	367.0	335.5	332.2	319.3	306.3
140°	372.3	344.4	341.4	329.6	317.6
142.5°	376.7	351.1	348.3	337.2	326.2
145°	382.6	361.3	358.8	349.2	339.6
147.5°	391.0	374.0	371.6	362.2	352.9
150°	395.5	380.6	378.5	370.1	361.5
152.5°	398.3	384.9	383.3	376.9	370.4
155°	404.6	394.4	393.2	388.6	383.8
157.5°	411.0	404.0	402.9	398.2	393.6
160°	413.9	408.3	407.3	403.8	400.2
162.5°	417.0	413.0	412.3	409.6	406.9
165°	421.5	419.6	418.9	416.5	414.1
167.5°	424.9	423.3	423.0	421.8	420.7
170°	427.8	427.7	427.4	426.2	425.1
172.5°	428.0	428.0	427.9	427.7	427.4
175°	429.8	430.6	430.6	430.6	430.6
177.5°	430.0	430.6	430.6	430.6	430.6
180°	430.6	430.6	430.6	430.6	430.6



TEST NUMBER: P934441

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-6-5000K

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.71	15.72	15.53	16.56	17.61	17.54	18.54	18.36	19.39	20.44
	3H	15.20	16.10	16.03	16.96	18.03	18.89	19.80	19.72	20.65	21.72
	4H	15.40	16.25	16.25	17.11	18.20	19.34	20.19	20.19	21.06	22.14
	6H	15.52	16.31	16.39	17.18	18.28	19.63	20.42	20.49	21.29	22.39
	8H	15.53	16.28	16.40	17.17	18.27	19.71	20.46	20.58	21.35	22.45
	12H	15.51	16.22	16.38	17.10	18.23	19.75	20.47	20.63	21.35	22.47
4H	2H	15.76	16.61	16.62	17.48	18.56	17.96	18.82	18.82	19.68	20.76
	3H	16.80	17.51	17.67	18.41	19.51	19.48	20.19	20.35	21.09	22.19
	4H	17.08	17.73	17.96	18.62	19.75	20.01	20.66	20.89	21.55	22.68
	6H	17.22	17.78	18.11	18.69	19.82	20.39	20.95	21.28	21.86	22.99
	8H	17.23	17.75	18.12	18.66	19.80	20.49	21.02	21.39	21.93	23.07
	12H	17.20	17.67	18.12	18.60	19.75	20.56	21.03	21.48	21.96	23.11
8H	4H	17.55	18.07	18.45	18.98	20.12	20.15	20.67	21.05	21.58	22.73
	6H	17.82	18.25	18.74	19.20	20.34	20.59	21.02	21.52	21.97	23.12
	8H	17.86	18.24	18.79	19.19	20.35	20.74	21.13	21.68	22.07	23.23
	12H	17.85	18.19	18.79	19.12	20.33	20.85	21.19	21.79	22.12	23.33
12H	4H	17.56	18.03	18.48	18.96	20.11	20.12	20.59	21.04	21.52	22.67
	6H	17.88	18.26	18.81	19.20	20.36	20.59	20.97	21.52	21.92	23.08
	8H	17.95	18.29	18.89	19.22	20.44	20.76	21.09	21.69	22.03	23.24